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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/817,269	03/27/2001	Shaohua Yu	Q62636	7689
7590 06/10/2005 SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			EXAMINER	
			WONG, BLANCHE	
2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213			ART UNIT	PAPER NUMBER
			2667	
			DATE MAILED: 06/10/200	DATE MAILED: 06/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		CK
	Application No.	Applicant(s)
Office Action Cumman.	09/817,269	YU, SHAOHUA
Office Action Summary	Examiner	Art Unit
The MAN INC DATE of the	Blanche Wong	2667
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence addreșs
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl' - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b)	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
<ul> <li>1) Responsive to communication(s) filed on 10 Fe</li> <li>2a) This action is FINAL. 2b) This</li> <li>3) Since this application is in condition for allowed closed in accordance with the practice under E</li> </ul>	s action is non-final.  nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-19,21-41,43-90 and 92-94 is/are per 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 1-19,21-41,43-69,71-90 and 92-94 is/are rejected.  7) ☐ Claim(s) 70 is/are rejected.  7) ☐ Claim(s) 7,11,32,35 and 76 is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or	wn from consideration. /are allowed.	
Application Papers		,
9) The specification is objected to by the Examine 10) The drawing(s) filed on 27 March 2001 is/are:  Applicant may not request that any objection to the  Replacement drawing sheet(s) including the correct  11) The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objected t drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
a) ☐ All b) ☐ Some * c) ☒ None of:  1. ☒ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority document application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat trity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal 8 6) Other:	

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#### **DETAILED ACTION**

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### Claim Objections

- 1. Claims 7, 32 and 76 are objected to because of the following informalities: unclarity. The variable x of the polynomial in cl. 7, ln. 3, cl. 32, ln. 3, and cl. 76, ln. 3, seems as though it is negative, i.e. "-x". Appropriate correction is required.
- Claims 11 and 35 are objected to because of the following informalities:
  limitation in parentheses. Examiner suggests removing the parentheses and replacing
  (octet stuffing) with "by octet stuffing" in cl. 11, In. 2 and cl. 35, In. 3. Appropriate
  correction is required.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 70 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kashio et al. (U.S. Pat No. 5,208,811) in view of Ishii et al. (U.S. Pat No. 5,323,392).

With regard to cl. 70, Kashio discloses a data transmission method (interconnection system and method for heterogeneous networks) from a lower layer side device (LAN Terminal) to an upper layer side device (ISDN Terminal, X.25 Terminal) comprising steps of:

receiving the data packets from said lower layer side device 200-j (LAN Terminals, col. 6, ln. 11; see also col. 7, ln. 50);

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removing (MAC layer 202 processes the MAC header 50, col. 6, In. 29) the overheads of said first type of frames (LAN frame);

extracting a SAPI field 52 (LLC header, col. 6, ln. 23)(LLC layer 204 processes the LLC header 52, col. 6, ln. 65-66) and the information 53 (information field, col. 6, ln. 24) from the payload portion of said first type of frames, to form 130 (LAN/ISDN Protocol Converter) a second type of frames (ISDN frame, specifically LAPD);

comparing (LLC 204 can be classified into an LLC-A and LLC-P, col. 7, ln. 1-3) the value of the SAPI field with a preset value, and determining (guaranteeing a frame transfer service, col. 6, ln. 63) to output the extracted data as it be if the value of the SAPI field data equals to said preset value;

and transmitting the extracted data packets to said upper layer side device 300-I (ISDN Terminals, col. 6, ln. 13; see also col. 7, ln. 51).

However, Kashio fails to explicitly show converting said second type of frames (ISDN frame, specifically LAPD) to a third type of frames corresponding to in said data packets.

In an analogous art, Ishii discloses an adaptation device between LAPD and LAPB (a third type of frames).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include a conversion between LAPD and LAPB before transmission to an upper layer side device (such as X.25 Terminal). The suggestion/motivation for

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doing so would have been to increase internetworking. Ishii, col. 2, In. 27. (LAPD (specific to ISDN) and LAPB (specific to X.25), col. 2, In. 54-56). Therefore, it would have been obvious to combine Ishii with Kashio for the benefit of numerous types of networks (heterogeneous networks of Kashio, internetworking of Ishii) to obtain the invention as specified in cl. 70.

# Allowable Subject Matter

- 5. Claims 1-19,21-41,43-69,90,92-94 are allowed.
- 6. Claims 71-89 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blanche Wong whose telephone number is 571-272-3177. The examiner can normally be reached on Monday through Friday, 830am to 530pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BW

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June 1, 2005

Chon T. Nfuga

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